

## What's New at the Alternative Fuels Data Center SEPTEMBER 2002

Listed below are new publications and other information made available in September through the U.S. Department of Energy's Alternative Fuels Data Center (AFDC). The AFDC is sponsored by the Clean Cities Program in the Office of Energy Efficiency and Renewable Energy, and is managed by the National Renewable Energy Laboratory. For more information, with questions, or to subscribe to this monthly update, contact Wendy Dafoe at [wendy\\_dafoe@nrel.gov](mailto:wendy_dafoe@nrel.gov), or call 303-275-4470.

This update is posted on the Web at [www.ccities.doe.gov/toolbox/coord\\_news.shtml](http://www.ccities.doe.gov/toolbox/coord_news.shtml).

**Final Results of the UPS CNG Truck Fleet Evaluation** are at [www.ctts.nrel.gov/heavy\\_vehicle/pdfs/31227.pdf](http://www.ctts.nrel.gov/heavy_vehicle/pdfs/31227.pdf). Also available in hard copy from the Hotline. See [http://www.ctts.nrel.gov/heavy\\_vehicle/natgas\\_pub.html](http://www.ctts.nrel.gov/heavy_vehicle/natgas_pub.html) for other publications on heavy vehicle applications.

EPA has a number of two-page **Clean Alternative Fuels Fact Sheets**, covering issues related to the fuels listed below. All the fact sheets are linked from this EPA Web page: [www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm](http://www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm).

- Biodiesel
- Propane
- Ethanol
- Electric Vehicles
- Compressed Natural Gas
- Fischer-Tropsch
- Methanol
- Liquefied Natural Gas
- Fuel Cells

A recent Web page developed by Tiger Teams project addresses the issue of **Why Can't I Pay at the Alternative Fuel Pump?** The project identified the issues behind implementing a universal card access system for alternative fuels. Learn about the results of their work at [www.ccities.doe.gov/tiger\\_projects.html](http://www.ccities.doe.gov/tiger_projects.html), and you can learn more about Tiger Teams at [www.ccities.doe.gov/tiger.html](http://www.ccities.doe.gov/tiger.html).

**EPAct Fleet Information and Regulations Program Activities and Accomplishments in FY 2002.** This is another timely, useful publication from DOE's State and Fuel Provider program, and it summarizes their work in 2002. Available at [www.afdc.doe.gov/pdfs/32531.pdf](http://www.afdc.doe.gov/pdfs/32531.pdf). Print a copy for your Coordinator Handbook or call the Hotline.

**Alternative Fuel Petition Program.** Fuel developers can petition DOE to have their product added to the list of EPAct-authorized alternative fuels. Petitions and associated technical analyses and correspondence are included in a public docket and posted on this new Web site. You may also access these documents using a computer in DOE's Freedom of Information Reading Room in the Forrestal Building, Washington, DC. Currently the Fischer-Tropsch docket is available at this Web site. Future petitions will also be posted electronically. Find it at [http://www.ott.doe.gov/epact/alt\\_fuel.shtml](http://www.ott.doe.gov/epact/alt_fuel.shtml)



**Granite State Clean Cities Coalition** has a new Web site: [www.granitestatecleancities.org](http://www.granitestatecleancities.org)

**Ethanol and Fuel Cells: Converging Paths of Opportunity**, published by Renewable Fuels Association (RFA). This 14-page report describes the benefits of merging research and production paths for ethanol and fuel cells, and calls for more attention to ethanol way to power fuel cells deserves more attention. On the Web at [www.ethanolrfa.org/RFA\\_Fuel\\_Cell\\_White\\_Paper.PDF](http://www.ethanolrfa.org/RFA_Fuel_Cell_White_Paper.PDF).

**Ethanol and the Local Community** is another study available on the Renewable Fuels Association Web site at [www.ethanolrfa.org/RFA\\_Fuel\\_Cell\\_White\\_Paper.pdf](http://www.ethanolrfa.org/RFA_Fuel_Cell_White_Paper.pdf). It outlines the economic benefits and impacts of building and operating an ethanol plant.

**Demonstration of Neighborhood Electric Vehicles**, from the California Energy Commission, analyzes qualitative and quantitative data from host NEV sites and outlines issues that may enhance or impede commercialization of the vehicles: [www.energy.ca.gov/reports/2002-08-28\\_600-02-020F.PDF](http://www.energy.ca.gov/reports/2002-08-28_600-02-020F.PDF)

**FreedomCAR Partnership Plan** outlines the January 2002 research initiative agreement between DOE and United States Council for Automotive Research (representing DaimlerChrysler, Ford and General Motors). FreedomCAR focuses on developing component technologies that will help reduce U.S. petroleum dependence: [www.ott.doe.gov/pdfs/freedomcar\\_plan.pdf](http://www.ott.doe.gov/pdfs/freedomcar_plan.pdf)

**Resource Guide for Heavy-Duty LNG Vehicles, Infrastructure and Support Operations.** This guide answers questions about implementing LNG fuel in a fleet. It provides contact information for manufacturers, suppliers and companies currently using the fuel: [http://www.ott.doe.gov/otu/field\\_ops/pdfs/lng\\_resource\\_guide.pdf](http://www.ott.doe.gov/otu/field_ops/pdfs/lng_resource_guide.pdf)

**Course Manual on Hydrogen Fuel Cell Engines and Related Technologies**  
Produced by College of the Desert and SunLine Transit Agency with funding from the U.S. Federal Transit Administration, it has technical information on the use of hydrogen as a transportation fuel. It covers hydrogen properties, use, and safety as well as fuel cell technologies, systems, engine design, safety, and maintenance. It also presents the different types of fuel cells and hybrid electric vehicles. In 10 separate downloadable modules it's available at [www.ott.doe.gov/otu/field\\_ops/hydrogen\\_class.html](http://www.ott.doe.gov/otu/field_ops/hydrogen_class.html).

**Dangerous Addiction - Ending America's Oil Dependence**, from the Natural Resources Defense Council and Union of Concerned Scientists. It discusses using American technology and know-how in pursuit of energy security and oil independence. It's on the NRDC site at [www.nrdc.org/air/transportation/oilsecurity/security.pdf](http://www.nrdc.org/air/transportation/oilsecurity/security.pdf), or purchase a copy from NRDC for \$11.00. Visit the site for purchase information.

**NREL's ReFUEL Lab** is a two-page summary of a new high-altitude facility for testing alternative and advanced fuels and heavy-duty engines and vehicles. The lab is dedicated to researching and developing fuels and lubricants for heavy-duty applications. On the Web at <http://www.afdc.doe.gov/pdfs/32514.pdf>.



**Beyond Diesel – Renewable Diesel.** A two-page summary of ReFUEL Lab work being done on renewable diesel. On the Web at [www.afdc.doe.gov/pdfs/6668.pdf](http://www.afdc.doe.gov/pdfs/6668.pdf).

**General Evaluation Plan: Fleet Test and Evaluation (FT&E) Projects.** This report summarizes standard data collection and evaluation techniques and fleet selection for FT&E projects. FT&E projects provide comprehensive fleet test data on alternative fuel vehicles and advanced technology vehicles. The data that's collected can help fleet owners and operators make vehicle purchase decisions. The Fleet Test and Evaluation (FT&E) team supports the vehicle test projects initiated by DOE's Office of FreedomCAR and Vehicle Technologies and the Office of Hydrogen, Fuel Cells, and Infrastructure Technologies: [www.afdc.doe.gov/pdfs/32392.pdf](http://www.afdc.doe.gov/pdfs/32392.pdf)

**Lubricants Basestock and Additive Effects on Diesel Engine Emissions.** This 16-page report summarizes one part of a cooperative research project funded by DOE's FreedomCAR, studying lubricant formulation effects on diesel emission control system performance: [www.afdc.doe.gov/pdfs/32842.pdf](http://www.afdc.doe.gov/pdfs/32842.pdf).

